

DESCRIPTION OF TABLES AND CHARTS.

Table I gives the data ordinarily needed for climatological studies for about 158 Weather Bureau stations making simultaneous observations at 8 a. m. and 8 p. m., daily, 75th meridian time, and for about 41 others making only one observation. The altitudes of the instruments above ground are also given.

Table II gives a record of precipitation, the intensity of which at some period of the storm's continuance equaled or exceeded the following rates:

Duration (minutes)	5	10	15	20	25	30	35	40	45	50	60
Rates per hour (inches)	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.87	0.84	0.80

It is impracticable to make this table sufficiently wide to accommodate on one line the record of accumulated falls that continue at an excessive rate for several hours. In this case *the record is broken at the end of each 50 minutes*, the accumulated amounts being recorded on successive lines until the successive rate ends.

In cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred the greatest precipitation of any single storm has been given, also the greatest hourly fall during that storm.

The tipping-bucket mechanism is *dismounted* and removed when there is danger of snow or water freezing in the same. Table II records this condition by entering an asterisk (*).

Table III gives, for about 30 stations of the Canadian Meteorological Service, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values except in the case of snowfall.

Chart I.—Hydrographs for several of the principal rivers of the United States.

Chart II.—Tracks of centers of high areas; and

Chart III.—Tracks of centers of low areas. The Roman numerals show the chronological order of the centers. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., 75th meridian time. Within each circle is also given (Chart II) the last three figures of the highest barometric reading or (Chart III) the lowest reading reported at or near the center at that time, and in both cases as reduced to sea level and standard gravity.

Chart IV.—Temperature departures. This chart presents the departures of the monthly mean temperatures from the monthly normals. The normals used in computing the departures were computed for a period of 33 years (1873 to 1905) and are published in Weather Bureau Bulletin "R," Washington, 1908. Stations whose records were too short to justify the preparation of normals in 1908 have been provided with normals as adequate records became available, and all have been reduced to the 33-year interval 1873-1905. The shaded portions of the chart indicate areas of positive departures and unshaded portions indicate areas of negative departures. Generalized lines connect places having approximately equal departures of like sign. This chart of monthly

temperature departures in the United States was first published in the MONTHLY WEATHER REVIEW for July, 1909.

Chart V.—Total precipitation. The scale of shades showing the depth is given on the chart. Where the monthly amounts are too small to justify shading and over sections of the country where stations are too widely separated or the topography is too diversified to warrant reasonable accuracy in shading, the actual depths are given for a limited number of representative stations. Amounts less than 0.005 inch are indicated by the letter T, and no precipitation by 0.

Chart VI.—Percentage of clear sky between sunrise and sunset. The average cloudiness at each Weather Bureau station is determined by numerous personal observations between sunrise and sunset. The difference between the observed cloudiness and 100 is assumed to represent the percentage of clear sky, and the values thus obtained are the basis of this chart. The chart does not relate to the nighttime.

Chart VII.—Isobars and isotherms at sea level and prevailing wind directions. The pressures have been reduced to sea level and standard gravity by the method described by Prof. Frank H. Bigelow on pages 13-16 of the REVIEW for January, 1902. The pressures have also been reduced to the mean of the 24 hours by the application of a suitable correction to the mean of the 8 a. m. and 8 p. m. readings at stations taking two observations daily, and to the 8 a. m. or the 8 p. m. observation, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in the Annual Report of the Chief of the Weather Bureau, 1900-1901, volume 2, Table 27, pages 140-164.

The isotherms on the sea-level plane have been constructed by means of the data summarized in chapter 8 of volume 2 of the annual report just mentioned. The correction, $t_0 - t$, or temperature on the sea-level plane minus the station temperature as given by Table 48 of that report, is added to the observed surface temperature to obtain the adopted sea-level temperature.

The prevailing wind directions are determined from hourly observations at the great majority of the stations; a few stations having no self-recording wind-direction apparatus determine the prevailing direction from the daily or twice-daily observations only.

Chart VIII.—Total snowfall. This is based on the reports from regular and cooperative observers and shows the depth in inches and tenths of the snowfall during the month. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given. Chart VIII is published only when the general snow cover is sufficiently extensive to justify its preparation.

Chart IX.—Average values of pressure, temperature, and prevailing wind directions, and storm tracks over the North Atlantic Ocean, *for the corresponding month of last year*.

TABLE I.—*Climatological data for Weather Bureau Stations, June, 1916.*

TABLE I.—*Climatological data for Weather Bureau Stations, June, 1916—Continued.*

MONTHLY WEATHER REVIEW.

JUNE, 1916

TABLE I.—Climatological data for Weather Bureau Stations, June, 1916—Continued.

Districts and stations.	Elevation of instruments.		Pressure.		Temperature of the air.										Precipitation.		Wind.														
	Barometer above sea level.	Thermometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max. + mean min. + 2.	Maximum.	Date.	Mean maximum.	Departure from normal.	Mean minimum.	Date.	Mean minimum.	Greatest daily range.	Mean relative humidity.	Total.	Departure from normal.	Days with 0.01 inch or more.	Total movement.	Prevailing direction.	Miles per hour.	Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness.	Total snowfall.	Snow on ground at end of month.			
	Ft.	Ft.	Ft.	In.	In.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	%	In.	In.	Miles.														
<i>Northern Slope.</i>																															
Billings.....	3,140	5	27,28	29.89	+0.04	61.4	59.3	-3.1	84	17	76	36	7	47	46	2.50	2,64	+0.4	2,570	sw.	11	15	4	0-10	4.8	In.	In.				
Hayes.....	2,505	11	44	29.89	+0.04	59.3	-3.1	84	16	69	49	6	49	29	53	48	2,03	+1.2	1,279	nw.	8	12	10	5-8	5.8						
Helena.....	4,110	87	114	25.78	29.93	+0.05	57.2	-3.4	89	15	68	35	21	46	36	47	40	59	3,601	+1.5	6,642	sw.	12	11	7	4-7	4.7				
Kalispell.....	2,982	11	34	26.90	29.92	+0.03	55.3	-3.5	84	18	67	33	2	43	40	42	68	3,91	+2.2	3,126	w.	17	6	17	5-8	T.					
Miles City.....	3,259	50	58	27.39	29.91	+0.06	63.4	-2.6	90	20	76	38	2	51	36	55	33	64	3,96	+1.2	5,083	nw.	5	7	20	3-6	4.7				
Rapid City.....	3,259	50	58	26.56	29.93	+0.08	60.1	-3.7	82	22	76	31	2	51	32	52	46	60	2,30	+1.3	6,265	n.	14	13	5	5-8	5.8				
Cheyenne.....	6,088	84	101	23.99	29.84	+0.00	58.4	-3.1	82	22	72	30	7	45	41	47	38	54	0.37	+1.2	5,081	nw.	5	15	13	2-4	1.1				
Lander.....	5,372	60	68	24.61	29.85	+0.00	60.2	-1.1	91	27	76	31	2	44	44	46	31	42	0.19	+0.9	4,299	w.	22	22	21	10	1	3-4			
Sheridan.....	3,790	10	47	26.08	29.91	+0.00	59.0	-1.1	90	29	72	35	2	40	39	51	44	62	2.23	+1.5	4,348	nw.	9	14	8	8	4.7				
Yellowstone Park.....	6,200	11	48	23.88	29.92	+0.06	50.5	-5.5	80	17	64	29	12	37	40	41	32	56	2,36	+0.7	4,737	s.	24	12	11	7	4.8	3.7			
North Platte.....	2,821	11	51	27.03	29.92	+0.06	64.6	-3.8	83	28	72	35	7	52	52	57	71	3,09	+0.2	5,214	s.	33	14	8	8	4.5					
<i>Middle Slope.</i>						70.4	-1.4																				4.3				
Denver.....	5,292	106	113	24.69	29.84	+0.00	66.1	-0.3	96	29	80	42	7	52	39	51	38	43	0.08	-1.4	5,570	se.	30	n.	19	16	14	0	3.6		
Pueblo.....	4,685	80	86	25.22	29.80	+0.03	69.6	+0.6	96	29	85	43	4	54	43	53	41	46	2.22	-0.2	5,157	e.	37	n.	10	17	11	2	3.1		
Concordia.....	1,392	50	58	28.44	29.88	+0.02	69.2	-3.5	90	29	89	48	8	59	30	62	57	69	4.66	-0.3	5,673	nw.	31	s.	29	7	16	5-8	5.3		
Dodge.....	2,509	11	51	27.31	29.85	+0.02	70.6	-2.5	94	1	82	50	50	49	62	58	69	5.16	+1.8	4,979	se.	38	ne.	11	13	13	4	4.2			
Wichita.....	1,358	139	158	28.44	29.84	+0.07	72.4	-1.9	91	1	82	55	8	63	28	65	61	73	3.32	+3.6	10,933	s.	52	ne.	5	14	13	3	4.4		
Altus.....	1,410	5	5			73.0																					14	5	11		
Muskogee.....	652	4				75.0																						17	3	10	
Oklahoma.....	4,214	10	47	28.61	29.85	+0.06	74.6	-1.1	96	1	84	55	6	65	32	67	64	73	6.16	+3.1	9,912	s.	61	n.	14	10	17	3	5.1		
<i>Southern Slope.</i>						80.0	+2.9																					3.8			
Abilene.....	1,738	10	52	28.04	29.79	+0.09	81.0	+2.8	102	26	93	53	8	69	36	67	60	54	2.05	-1.1	7,923	se.	47	n.	26	21	8	1	3.1		
Amarillo.....	3,676	10	49	26.18	29.79	+0.03	74.6	+2.6	100	21	89	50	7	60	37	62	56	61	2.18	-0.8	7,988	s.	35	n.	4	17	11	2	3.2		
Del Rio.....	944	64	71	28.84	29.79	+0.06	86.4	+4.3	109	6	98	66	15	75	36	0	0.08	-2.4	1,936	se.	30	20	6	0	2.9						
Roswell.....	3,566	75	85	26.24	29.75	+0.05	78.2	+1.9	100	25	95	53	5	62	41	56	38	31	0.44	-1.6	1,628	s.	39	sw.	4	24	6	0	1.9		
<i>Southern Plateau.</i>						74.6	0.0																				1.0				
El Paso.....	3,762	110	133	26.06	29.69	+0.06	83.8	+4.2	102	29	97	62	8	70	33	56	28	17	0.06	-0.6	0	8,501	nw.	52	w.	4	28	2	0	1.2	
Santa Fe.....	7,013	57	66	23.25	29.73	+0.08	66.2	0.0	87	30	80	44	1	53	32	46	27	28	0.38	-0.7	1,787	sw.	30	n.	20	23	5	2	2.4		
Flagstaff.....	6,908	8	57	23.36	29.79	+0.01	58.9	-0.4	86	16	78	32	19	40	49		0.00		0		w.	38	sw.	20	25	5	0	0.0			
Phoenix.....	1,108	76	81	28.18	29.72	+0.02	83.9	-0.5	111	15	101	57	1	67	44	58	37	22	0.00	-0.1	4,981	e.	22	w.	3	30	0	0	0.3		
Yuma.....	141	9	54	29.57	29.71	+0.03	85.4	+0.7	116	15	104	56	4	66	48	63	43	35	0.00	-0.0	3,712	w.	27	w.	3	30	0	0	0.1		
Independence.....	3,910	11	42	25.87	29.78	+0.00	69.5	-3.9	97	16	88	40	3	51	44		0.00	-0.1	0	4,054	se.	27	29	1	0				1.0		
<i>Middle Plateau.</i>						64.1	-1.0																					2.0			
Reno.....	4,532	74	81	25.44	29.87	+0.01	61.8	+0.8	96	16	78	34	2	46	44	46	31	40	0.11	-0.1	1	5,450	w.	36	w.	19	22	7	1	2.3	
Tomopah.....	6,090	12	20	21.03	29.83	+0.03	64.0	+1.7	87	16	79	37	21	52	29	45	25	25	0.00	-0.4	6,320	w.	36	nw.	19	23	5	1	2.1		
Winnebucca.....	4,344	18	56	25.58	29.91	+0.03	61.6	-1.7	98.8	16	79	32	22	44	44	48	36	30	0.00	-0.6	4,744	ne.	29	nw.	19	23	5	1	1.7		
Modena.....	5,479	10	43	24.56	29.80	+0.02	63.0	-0.2	91	16	82	32	2	44	47	43	20	25	0.01	-0.4	1,874	w.	44	s.	20	25	5	0	1.7		
Salt Lake City.....	4,360	147	189	25.56	29.85	+0.00	65.9	-2.4	96	17	78	40	22	54	35	49	32	32	0.66	-0.1	3,658	nw.	35	n.	20	21	6	3	2.6		
Durango.....	6,546	10	46	23.65	29.81	+0.01	60.8	-1.9	87	30	81	33	1	40	45	45	37	20	T.	-0.8	0	0	28	2	2	0	0	1.7			
Grand Junction.....	4,602	82	96	25.29	29.79	+0.04	71.7	-0.9	94	30	86	43	2	57	49	59	25	20	T.	-0.4	0	6,082	nw.	34	s.	21	25	5	0	1.7	
<i>Northern Plateau.</i>						61.2	-3.8																					4.7			
Baker.....	3,471	48	53	26.44	30.00	+0.05	55.7	-2.9	93	17	69	31	10	42	40	46	38	58	1.43	+0.2	8,4,134	se.	22	n.	20	15	8	9	4.5		
Boise.....	2,739	78	86	27.12	29.96	+0.05	61.8	-4.2	98	16	76	36	21	48	43	49	37	48	1.58	+0.8	7,321	sw.	26	w.	9	9	11	10	4.1		
Lewiston.....	757	40	48	29.16	29.98	+0.02	64.4	-4.7	104	17	78	43	2	51	46		1.91	+0.9	11	2,419	ne.	24	nw.	9	9	11	10	5.2			
Pocatello.....	4,477	36	54	25.43	29.89	+0.02	60.0	-4.2	97	12	57	46	11	48	23	45	31	39	0.32	+0											

TABLE II.—Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during June, 1916, at all stations furnished with self-registering gages.

* Self-register not working

^t Record partly estimated.

f No precipitation occurred during month.

TABLE II.—Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.89 in 1 hour, during June, 1916, at all stations furnished with self-registering gages—Continued.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated.														
		From—	To—		Began—	Ended—		3 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.	
Jacksonville, Fla.	14	8:05 a.m.	11:25 a.m.	1.28	9:40 a.m.	10:26 a.m.	0.01	.13	.16	.19	.28	.47	.73	.93	1.05	1.21	1.23	.....	.....	.....	.....
	18	1:30 p.m.	5:20 p.m.	0.84	2:31 p.m.	3:02 p.m.	.03	.06	.17	.43	.60	.71	.77	.80	.....	.....	.....	.....	.....	.....	.....
	24	11:54 a.m.	2:25 p.m.	1.67	11:56 a.m.	12:36 p.m.	.01	.30	.37	.39	.39	.41	.78	.92	1.02	.....	.....	.....	.....	.....	.....
	29	3:43 p.m.	5:15 p.m.	0.88	4:05 p.m.	4:27 p.m.	.03	.27	.43	.59	.73	.79	.....	.....	.....	.....	.....	.....	.....	.....	0.31
Kalispell, Mont.	18-20	.....	.....	1.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*
Kansas City, Mo.	5-6	.....	.....	2.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Keokuk, Iowa	20	2:30 p.m.	4:50 p.m.	1.40	3:36 p.m.	4:04 p.m.	.20	.17	.50	.83	1.04	1.10	1.17	.....	.....	.....	.....	.....	.....	.....	.....
Key West, Fla.	13	9:29 a.m.	10:30 a.m.	0.98	9:42 a.m.	10:10 a.m.	.02	.21	.48	.65	.90	.95	.....	.....	.....	.....	.....	.....	.....	.....	.....
Knoxville, Tenn.	11-12	5:50 p.m.	7:50 a.m.	1.72	6:20 p.m.	6:45 p.m.	.01	*.	*	*	*	*	.65	.....	.....	.....	.....	.....	.....	.....	.....
La Crosse, Wis.	25-26	11:27 p.m.	D. N. a. m.	0.68	11:28 p.m.	11:37 p.m.	.01	.30	.39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lander, Wyo.	21	.....	.....	0.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.06
Lansing, Mich.	29-30	.....	.....	1.58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.40
Lewiston, Idaho	25-26	.....	.....	0.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.30
Lexington, Ky.	2	10:12 p.m.	D. N. p. m.	0.82	10:12 p.m.	10:50 p.m.	.00	.17	.28	.33	.40	.50	.59	.66	.78	.....	.....	.....	.....	.....	.....
Lincoln, Nebr.	18	3:45 p.m.	5:15 p.m.	0.71	4:13 p.m.	4:38 p.m.	.01	.14	.24	.30	.39	.44	.55	.68	.....	.....	.....	.....	.....	.....	.....
Little Rock, Ark.	5	4:10 p.m.	6:10 p.m.	1.07	4:26 p.m.	4:49 p.m.	.04	.06	.16	.37	.64	.74	.....	.....	.....	.....	.....	.....	.....	.....	.....
Los Angeles, Cal.	23	3:58 p.m.	4:45 p.m.	0.72	4:07 p.m.	4:23 p.m.	.01	.19	.51	.68	.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marquette, Mich.	1-2	1:44 p.m.	6:14 p.m.	4.46	.....	.....	.....	1.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisville, Ky.	18	2:58 p.m.	6:47 p.m.	1.65	{ 5:06 p.m.	5:28 p.m.	.05	.24	.37	.51	.74	.82	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ludington, Mich.	8-9	.....	.....	1.00	{ 6:10 p.m.	6:35 p.m.	1.62	.15	.27	.40	.50	.59	.....	.....	.....	.....	.....	.....	.....	.....	.32
Lynchburg, Va.	29-30	10:30 p.m.	12:40 a.m.	1.73	11:06 p.m.	12:01 a.m.	.08	.06	.10	.19	.53	.83	1.09	1.27	1.43	1.50	1.56	1.63	.....	.....	.....
Macon, Ga.	22-23	7:36 p.m.	D. N. a. m.	1.18	7:46 p.m.	8:15 p.m.	.03	.08	.14	.27	.63	.90	.99	.....	.....	.....	.....	.....	.....	.....	.....
Madison, Wis.	1	9:50 p.m.	D. N. p. m.	0.87	10:58 p.m.	11:18 p.m.	.09	.09	.13	.22	.29	.40	.45	.62	.77	.....	.....	.....	.....	.....	.....
Memphis, Tenn.	19	7:36 p.m.	D. N. p. m.	0.74	7:50 p.m.	8:14 p.m.	.01	.10	.24	.32	.54	.66	.....	.....	.....	.....	.....	.....	.....	.....	.....
Meridian, Miss.	27	10:32 a.m.	11:45 a.m.	1.03	11:55 a.m.	12:17 a.m.	T.	.24	.57	.74	.90	.91	1.01	.....	.....	.....	.....	.....	.....	.....	1.70
Miami, Fla.	16	1:23 p.m.	D. N. a. m.	2.33	1:33 p.m.	3:09 p.m.	.01	.23	.45	.62	.69	.76	.78	.88	1.11	1.37	1.53	1.70	1.90	.....	.....
Milwaukee, Wis.	6-8	.....	D. N. a. m.	1.07	1:56 p.m.	2:30 a.m.	.03	.06	.17	.44	.57	.68	.80	.93	.....	.....	.....	.....	.....	.....	.....
Minneapolis, Minn.	29	12:55 a.m.	6:10 p.m.	1.40	12:55 a.m.	1:59 a.m.	.00	.12	.30	.48	.56	.61	.64	.69	.71	.73	.78	.88	1.09	.....	.....
Mobile, Ala.	28	3:28 p.m.	6:10 p.m.	1.27	3:32 p.m.	4:10 p.m.	.01	.10	.16	.39	.53	.84	1.04	1.15	1.1901
Modena, Utah	10	.....	.....	0.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montgomery, Ala.	12	2:35 p.m.	6:20 p.m.	0.91	3:30 p.m.	4:10 p.m.	.01	.14	.29	.44	.64	.73	.80	.85	.....	.....	.....	.....	.....	.....	.....
Moorehead, Minn.	26	2:12 p.m.	3:33 p.m.	0.71	2:27 p.m.	2:44 p.m.	.01	.25	.51	.63	.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.01
Mount Tamalpais, Cal.	28	5:40 p.m.	11:15 p.m.	1.88	5:52 p.m.	6:27 p.m.	.03	.13	.32	.64	.91	1.07	1.28	1.36	.....	.....	.....	.....	.....	.....	.....
Nantucket, Mass.	30	.....	.....	0.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.01
Nashville, Tenn.	17-18	.....	.....	1.94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.71
New Haven, Conn.	11	12:50 p.m.	8:45 p.m.	1.51	7:46 p.m.	8:16 p.m.	.75	.09	.13	.17	.40	.57	.70	.....	.....	.....	.....	.....	.....	.....	.....
New Orleans, La.	16-17	1:39 a.m.	1:25 p.m.	1.57	1:21 p.m.	12:46 p.m.	.07	.20	.52	.90	1.31	1.38	.....	.....	.....	.....	.....	.....	.....	.....	.58
New York, N. Y.	23	8:30 p.m.	9:45 p.m.	0.70	8:37 p.m.	9:00 p.m.	.01	.08	.27	.40	.50	.55	.....	.....	.....	.....	.....	.....	.....	.....	.....
Norfolk, Va.	7	3:10 p.m.	D. N. a. m.	0.50	3:34 p.m.	3:33 p.m.	.14	.20	.39	.74	1.30	1.52	1.71	1.80	1.97	2.21	2.43	2.81	3.02	3.08	.....
Northfield, Vt.	27-28	.....	.....	0.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.52
North Head, Wash.	27	.....	.....	0.34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.20
North Platte, Nebr.	10	D. N. a. m.	6:05 a.m.	0.67	3:54 a.m.	3:54 a.m.	.09	.15	.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oklahoma, Okla.	12	1:05 a.m.	4:20 a.m.	0.76	1:34 a.m.	1:57 a.m.	.04	.08	.22	.34	.37	.53	.....	.....	.....	.....	.....	.....	.....	.....	.....
Omaha, Nebr.	14	2:05 a.m.	8:10 a.m.	0.99	2:13 a.m.	2:33 a.m.	.01	.23	.50	.59	.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.11
Oswego, N. Y.	3	11:32 a.m.	3:05 p.m.	0.49	9:03 p.m.	10:02 p.m.	.01	.15	.42	.82	.98	1.27	1.63	1.78	1.82	1.87	1.91	.....	.....	.....	.....
Palestine, Tex.	15	.....	.....	1.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.26
Parkersburg, W. Va.	21	.....	.....	1.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.53
Pensacola, Fla.	13	12:50 p.m.	4:50 p.m.	2.45	1:12 p.m.	2:19 p.m.	.01	.07	.12	.18	.48	.78	1.22	1.56	1.78	1.91	2.00	2.20	2.39	.....	.....
Peoria, Ill.	20	.....	.....	1.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.46
Philadelphia, Pa.	7-8	.....	.....	1.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.40
Phoenix, Ariz.	19-20	.....	.....	0.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.33
Pierre, S. Dak.	24	.....	.....	1.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.60
Pittsburgh, Pa.	2-3	.....	.....	0.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.14
Pocatello, Idaho	4	.....	.....	0.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.05
Point Reyes Light, Cal.	30	.....	.....	0.22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.31
Port Huron, Mich.	2	.....	.....	0.32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*
Portland, Me.	8-12	.....	.....	3.06	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.40
Portland, Oreg.	29-30	.....	.....	0.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.63
Providence, R. I.	17	.....	.....	2.21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pueblo, Colo.	11	3:58 p.m.	5:33 p.m.	0.89	4:39 p.m.	5:02 p.m.	.01	.06	.32	.65	.81	.87	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raleigh, N. C.	3	3:50 p.m.	5:46 p.m.	0.63	3:55 p.m.	5:11 p.m.	.02	.25	.47	.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rapid City, S. Dak.	12	4:50 p.m.	D. N. a. m.	1.45	8:56 p.m.	9:43 p.m.	.01	.14	.26	.31	.50	.62	.68									

TABLE II.—Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during June, 1916, at all stations furnished with self-registering gages—Continued.

Stations.	Date.	Total duration.		Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.												
		From—	To—	Began—	Ended—		3 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
San Luis Obispo, Cal.	†			0.38															0.38
Santa Fe, N. Mex.	4			1.39														*	
Sault Ste. Marie, Mich.	16-18	12:33 p. m.	1:50 p. m.	0.65	12:41 p. m.	1:01 p. m.	0.01	0.27	0.44	0.55	0.60	0.86	0.92	1.01	1.07				
Savannah, Ga.	28	9:15 p. m.	D. N. p. m.	1.98	9:33 p. m.	10:12 p. m.	.08	.05	.21	.34	.64								
Scranton, Pa.	27			0.44															
Seattle, Wash.	20			0.33															
Sheridan, Wyo.	4			0.62	3:45 p. m.	4:00 p. m.	.03	.12	.24	.41	.68	.59							
Shreveport, La.	5	3:25 p. m.	4:08 p. m.	0.90	4:25 a. m.	4:34 a. m.	.07	.19	.36	.51	.57								
Sioux City, Iowa	22-23	8:15 p. m.	D. N. a. m.	0.51	8:50 p. m.	9:00 p. m.	.02	.19	.31									*	
Spokane, Wash.	24			0.29															.25
Springfield, Ill.	6	7:50 a. m.	8:50 p. m.	1.56	9:14 a. m.	9:45 a. m.	.03	.08	.20	.28	.37	.42	.51						*
Springfield, Mo.	5			0.72	7:53 p. m.	8:25 p. m.	.03	.08	.20	.36	.46	.53	.66	.69					
Syracuse, N. Y.	24	7:15 p. m.	8:30 p. m.	0.41															
Tacoma, Wash.	30			1.33	7:30 a. m.	8:12 a. m.	.08	.20	.37	.53	.70	.83	.91	1.01	1.13	1.18			
Tampa, Fla.	8	7:08 a. m.	8:28 p. m.	1.15	5:48 p. m.	6:14 p. m.	.01	.38	.71	.83	1.01	1.09	1.12						
Tatoosh Island, Wash.	27-30			1.01															
Taylor, Tex.	15			0.44															.21
Terre Haute, Ind.	20-21	7:54 p. m.	F. N. a. m.	1.64	9:00 p. m.	9:28 p. m.	.26	.25	.41	.50	1.05	1.27	1.34						
Thomaston, Ga.	4	4:35 p. m.	6:20 p. m.	1.22	5:04 p. m.	5:37 p. m.	.02	.37	.60	.85	.90	1.06	1.17						
Toledo, Ohio	17-18	10:00 p. m.	D. N. a. m.	0.47	11:06 p. m.	11:10 p. m.	.01	.20	.34										
Tomopah, Nev.	†																		
Topeka, Kans.	26	12:35 a. m.	D. N. a. m.	0.70	12:48 a. m.	1:14 a. m.	.01	.12	.26	.35	.44	.51	.55						
Valentine, Nebr.	12	2:35 p. m.	3:42 p. m.	0.60	4:02 p. m.	4:02 p. m.	.08	.11	.27	.51	.58								
Vicksburg, Miss.	24	8:10 p. m.	9:40 p. m.	0.59	9:44 p. m.	10:14 p. m.	.01	.21	.38	.50	.56								
Walla Walla, Wash.	25-26			1.13	5:38 a. m.	6:30 a. m.	.13	.05	.10	.24	.58	.68	.72	.80	.83				.36
Washington, D. C.	19	6:45 p. m.	10:25 p. m.	2.18	7:01 p. m.	7:54 p. m.	.01	.08	.27	.56	.81	1.11	1.43	1.61	1.63	1.65	1.73	1.85	
Wichita, Kans.	5	12:50 a. m.	7:40 p. m.	4.70	11:30 a. m.	12:30 p. m.	.23	.14	.23	.31	.43	.48	.52	.50	.72	.82	.93	1.02	
Williston, N. Dak.	20	D. N. a. m.	1.01	12:50 a. m.	1:29 a. m.	.01	.13	.22	.25	.38	.47	.52							
Wilmington, N. C.	29	9:45 p. m.	11:55 p. m.	0.38	10:05 p. m.	10:05 p. m.	.01	.40	.65	.85	.90								
Winnemucca, Nev.	25	12:24 p. m.	D. N. a. m.	1.14	12:03 a. m.	12:53 a. m.	.03	.08	.10	.22	.30	.49	.57	.65	.70	.77	.87	.92	
Wytheville, Va.	24	12:08 p. m.	2:30 p. m.	0.56	1:01 p. m.	1:20 p. m.	.08	.08	.23	.31	.40								
Yankton, S. Dak.	11	7:49 a. m.	10:45 a. m.	1.25	7:56 a. m.	8:17 a. m.	.04	.25	.45	.48	.55	.62							
Yellowstone Park, Wyo.	20-21	6:40 p. m.	10:15 p. m.	1.39	6:57 p. m.	7:02 p. m.	.02	.11	.33	.49	.62	.80	.92	1.00				*	

* Self-register not working.

† Record partly estimated.

‡ No precipitation occurred during month.

TABLE III.—Data furnished by the Canadian Meteorological Service, June, 1916.

Stations.	Altitude above M. S. L.*	Pressure.			Temperature of the air.					Precipitation.		
		Jan. 1, 1916.	Station reduced to mean of 24 hours.	Sea level reduced to mean of 24 hours.	Departure from normal.	Mean max. + mean min. + 2.	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.
St. Johns, N. F.	125	29.87	30.01	+0.10	53.2	+1.6	61.0	45.4	78	36	1.82	-1.78
Sydney, C. I.	48	29.96	30.00	+ .05	55.8	+0.4	65.7	45.9	78	32	3.46	+0.23
Halifax, N. S.	88	29.90	30.00	+ .05	57.1	-0.6	66.3	47.9	80	37	5.31	+1.55
Yarmouth, N. S.	65	29.89	29.96	+ .01	54.9	-0.1	62.8	46.0	71	41	6.72	+3.96
Charlottetown, P. E. I.	23	29.93	29.97	+ .05	59.2	+1.8	66.7	51.7	75	41	2.55	-0.12
Chatham, N. B.	28	29.95	29.97	+ .08	60.3	+0.3	68.8	50.8	82	37	4.32	+0.96
Father Point, Que.	20	29.90	29.92	+ .05	55.1	+2.1	62.6	47.6	80	40	3.48	+0.50
Quebec, Que.	296	29.62	29.94	+ .02	61.3	+0.1	69.3	53.4	83	44	5.38	-1.73
Montreal, Que.	187	29.71	29.91	- .03	63.2	-1.7	71.1	55.4	89	49	4.20	+0.67
Stonecliffe, Ont.	489	29.30	29.90	- .04	60.0	-1.6	71.3	48.7	85	33	3.05	-0.11
Ottawa, Ont.	236	29.65	29.91	- .03	61.7	-3.6	70.0	53.3	80	42	4.20	+1.28
Kingston, Ont.	285	29.62	29.93	- .04	60.4	-3.0	67.5	53.3	74	42	6.20	+3.77
Toronto, Ont.	373	29.50	29.96	- .01	60.1	-3.3	61.1	51.2	78	40	4.29	+1.49
White River, Ont.	1,244	28.55	29.85	- .09	52.8	-5.9	55.9	39.9	79	28	5.95	+5.73
Port Stanley, Ont.	592	29.28	29.92	- .05	59.8	-4.0	68.6	51.0	75	35	3.51	+0.81
Southampton, Ont.	656	29.21	29.81	- .05	57.5	-2.9	66.4	48.6	81	36	5.95	+3.60
Parry Sound, Ont.	688	29.22	29.90	- .06	59.5	-2.2	69.0	50.1	80	34	3.18	+0.76
Port Arthur, Ont.	644	29.17	29.88	- .06	54.6	-1.8	63.8	45.4	76	36	3.03	+0.30
Winnipeg, Man.	700	29.05	29.87	- .02	58.3	-3.9	69.1	47.5	80	34	4.12	+0.83
Minnedosa, Man.	1,630	28.08	29.87	- .02	55.5	-4.1	66.0	44.9	78	32	3.55	+0.55
Qu'Appelle, Sask.	2,115	27.60	29.82	- .05	55.7	-4.2	66.1	45.3	78	34	4.10	+0.68
Medicine Hat, Alberta.	2,144	27.59	29.81	- .01	61.3	-0.7	73.6	49.1	87	38	4.09	+1.33
Swift Current, Sask.	2,302	27.29	29.83	- .02	56.3	-3.7	68.1	41.5	79	28	4.05	+1.38
Calgary, Alberta.	3,428	26.40	29.88	+ .05	56.1	+0.1	68.5	43.8	82	34	1.46	-0.99
Banff, Alberta.	4,521	25.37	29.89	+ .05	51.3	-0.2	63.8	38.9	79	28	2.65	-0.68
Edmonton, Alta.	2,150	27.60	29.86	+ .02	56.0	-0.9	68.0	44.0	77	29	2.62	-0.24
Prince Albert, Sask.	1,450	28.31	29.85	+ .02	56.2	-1.5	67.0	45.5	77	30	2.60	+0.00
Battleford, Sask.	1,592	28.12	29.84	- .02	57.2	-2.3	68.7	45.7	78	32	3.66	+0.35
Kamloops, B. C.	1,262	28.70	29.97	+ .10	63.8	0.0	75.9	51.6	95	38	2.82	+1.40
Victoria, B. C.	230	28.79	30.01	+ .03	56.4	+0.1	64.2	48.5	81	44	6.32	-0.68
Barkerville, B. C.	4,180	25.72	30.01	+ .14	50.3	-0.4	62.7	37.9	75	24	2.56	-0.62
Hamilton, Bermuda.	151	29.92	30.08	- .04	73.0	-2.0	78.8	67.3	82	62	2.11	-3.81

* The altitudes given were furnished by the Director, Canadian Meteorological Service, March 9, 1916, and refer to cisterns of barometers at the respective stations. Where sea-level pressures and departures are italicized new reduction factors are in course of computation.—C. A., Jr.

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